PhotoBank

USER MANUAL

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Eazy and Light

Card reader

External hard disk

EzDrive is the smallest & light integrated solution that provides external harddisk, card reader and memory card backup functions. As a portable external storage device, EzDrive is a perfect choice for active mobile users providing a very light and optimal solution for personal information storage and transfer. Any PC with a USB port is enough for user to access documents, music, images, or any other data stored in the internal harddisk. In addition, EzDrive also acts as an all-in-one card reader supporting all major memory card types. Most importantly, EzDrive enhances the mobile users by enabling them to copy the content of a memory card into the internal harddisk without any PC or notebook required. User can backup the memory card content with a touch of the button or erase the memory card with the touch of the button. EzDrive allows the users to easily free up more expansive memory cards for re-use in the field.

EzDrive supports TypeI, Type II Compact Flash (CF), MicroDrive, MagicStor, Secure Digital Card (SD), Multimedia Card (MMC), Memory Stick /DUO, Memory Stick PRO/DUO, Picture Card (xD), MiniSD, EzDrive hook to PC can be achieved using USB 2.0 High Speed (480Mbps) link.

EzDrive comes equipped with an internal Li-polymer rechargeable battery. The battery can be charged either with an external DC adapter or via USB port when connect to the PC or notebook.

Product Parts

This section give a briefly description on the part functionality. Refer User Interface Desc section for detail description.

1.1 Buttons & switch

Key	Activation	Operation
Select	Press & Hold Press & Hold Press once	Power On. Power Off. Select Copy or Delete mode
Copy	Press	Copy memory card to Hard disk in Copy mode Delete memory card in Delete mode
Reset	Press	Reset.

1.2 LED Indication

LED	Definition	Indication
	Card access	Memory card is accessed
	HDD access	Hard disk is accessed

1.3 Connectors

Type	Definition	Purpose
CON1	DC jack	DC source +5V @ 1A
CON2	Mini USB connector	Connect to PC or Notebook USB 1.0 or 2.0 pc
CON3	Memory Card connector	Memory Card slot (SD/MMC/MS/MS-PRO/xD)
CON4	CF Card connector	Compact Flash memory card or Microdrive slc
CON5	Memory Card connector	Memory Card slot (MiniSD/MS Duo/MS Pro D
CON6	HDD connector	2.5 inch Hard disk

Specification

2.1 Technical Specification

Copy mode Data Transfer Rate	CF to HDD: 3.5MBps SD to HDD: 2.5MBps (2x) 3.4MBps (ultra speed) MMC to HDD: 1 MBps xD to HDD: 2.3MBps MS to HDD: 0.5MBps MS PRO to HDD: 3.5MBps
USB Transfer Rate	This is a high speed USB device. Hard disk operates in UDMA mode 3. USB Transfer Rate -Read: 24.5MBps USB Transfer Rate -Write: 16.7MBps
Operating OS	Windows 98SE, ME, XP, 2K(above), Mac V(above), Linux 2.4 (above)
Features	File System: FAT12, FAT16 or FAT32 Long Filename: Max 256 character, Support Unicode character Auto sleep: 30seconds (copy) Card reader cum external hard disk storage
USB compliance	USB 2.0, 1.0

2.2 Electrical Specification

Operating Condition	0°C ~ 70°C
DC output	+ 5Volt @ 1.0Amper
Lithium polymer rechargeable battery	3.7V 900mAh (above)
Operating Current	80mA (Idling) 100uA (shutdown) 800mA (depend on hard disk startup) 500mA (depend on hard disk read/write) 480mA (charge through USB) 820mA (charge through DC)

2.3 Product Specification

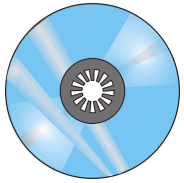
Weight	
Size	123mm*77mm*25mm

2.4 Minimum PC system requirement

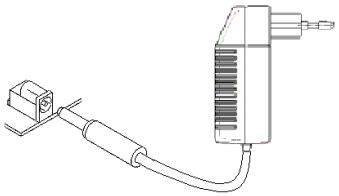
PC	IBM Compatible PC
CPU	Pentium III (and above)
RAM	64MB
USB Port	USB1.0 or 2.0
HDD space	20MB
OS	Microsoft Platform (98SE/ME/XP/2000/2003) Mac OS V

Accessories Bundling

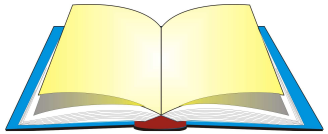
USB cable



Installation CD



Charger



Manual

User Interface Description

3.1 Button and Switch Description

Key	Activation	Operation Mode	Description
Power / Select	Press Hold	USB / Standalone	q Press and hold this button for a second to power-up the device. q Press and hold this button for few seconds, release the button to power down the device.
Copy / Execute	Press	Standalone	q Press this button once to initiate copy in copy mode. The device copies all the content of the memory card to Hard disk. q Press this button once to initiate delete in delete mode. The device delete all the content in the memory card.
Reset	Press	USB / Standalone	q Press this button once to reset the device.

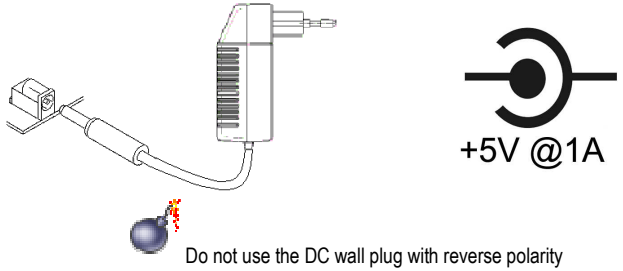
3. 2 LED Description

LED	Indication	Operation Mode	Description
1	Card access	USB Standalone	q Inconsistent blinking indicates the memory card media is accessing. q Turn on indicates memory card is detected. q Consistent blinking indicates memory card is detected and prompt user for copy. q Inconsistent blinking indicates copy is in progress.
2	HDD access	USB / Standalone	q Inconsistent blinking indicates Hard disk is accessing

3.3 Connectors Description

3.3.1 DC jack

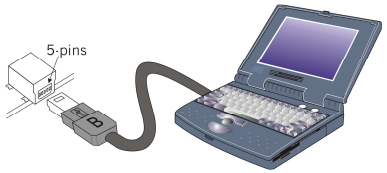
Connect the plug of the AC-DC Regulated wall adapter to this DC jack. Use the adapter that bundle together with this device. The inner ring of the shaft of the DC plug is positive power. Do not use wrong wall plug. The voltage output of the wall adapter must be between +5 Volts and +5.5 Volts. The current rating must be >= 1.0 Ampere.

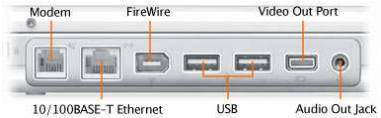


Do not use the DC wall plug with reverse polarity

3.3.2 Mini USB connector

Plug in the miniUSB cable into this connector and the other end of the cable to the PC or the notebook's USB port or to any external USB hub. Use the miniUSB cable that bundle with this device. The device is compliance to USB 2.0 as well as USB1.0 specification.





Notebook connector view

3.3.3 SD/MMC/MS/XD Memory card slot

This slot support any memory card such as Secure Digital card, Multimedia card, XD picture card, Memory Stick, Memory stick PRO. The device can be function as a memory card reader whenever user connects this device to the PC or notebook via USB connection. This device also support mini size memory card that come with the memory card adapter for example the Memory Stick DUO, the Memory stick PRO DUO and the miniSD.

3.3.4 Compact Flash memory card slot

This slot supports Compact Flash Type I and II as well as Micro Drive card. This device support unlimited capacities size.

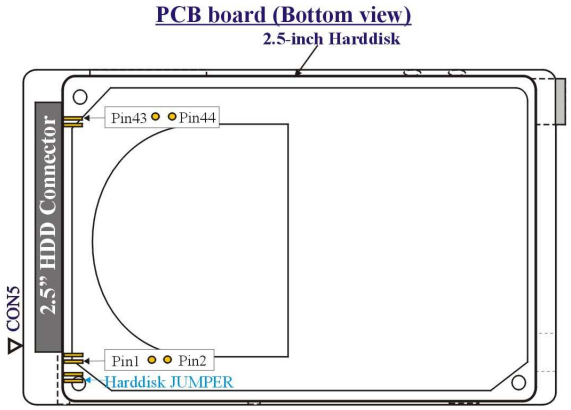
3.3.5 MiniSD/MS Duo/Ms PRO Duo Flash memory card slot

This slot support mini size memory card Memory Stick DUO, Memory stick PRO DUO and miniSD. This device support unlimited capacities size.

3.3.6 44 pins connector

Slot the 2.5inch Hard disk drive into this connector as shown in the picture below. User needs to ensure that the 2.5-inch hard disk drive is not slot in the wrong direction if user needs to change the drive by his own. If user wants to connect 3.5inch Hard disk drive to this device, he need to use external PC power that has 12V & 5V supply and he need a 2.54mm to 2.00mm, 40-pin converter connector.

This device support more than 128Gbytes of Hard disk capacities size.



Remove harddisk jumper

The harddisk Jumper must be configure to Device 0 setting.

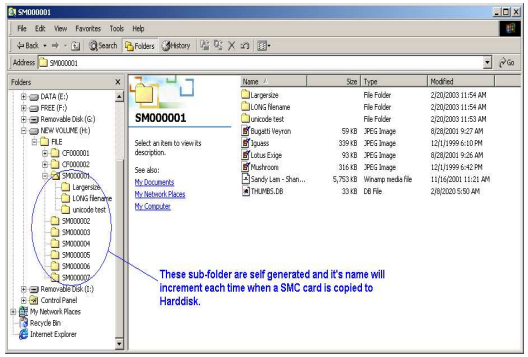
Device Operation

4.1 Copy (standalone) mode

§ Power up the device by pressing the ON button, notice the OK LED lights up.

§ User may insert any of the memory cards to the memory card slot. Notice the ACCESS LED blinks to prompt user to press COPY button to initiate copy.

§ During copying, the content of the memory card is coping to the hard disk. The ACCESS and HDD LED blink to indicate to user that both media are accessing and copy is in progress. A directory (e.g. FILE) is self-generated on the hard disk and the sub-folder is self generated. (i.e. CF000001, CF000002 … MS000001, MS000002.., SD00001…, MS00001…, XD00001…) The CFxxxxxx sub-folder contains the content of the Compact Flash memory card, likewise to MSxxxxxx contains the content of the MS memory card.



§ If an error has occurred during copying, then user will notice the ERROR LED light up. User may validate the content of the memory card. User may ignore the empty folder self-generated in the hard disk if error has occurred.

Error occur may be due to your memory card or Harddisk is not FAT or FAT32 formatted or not properly partition (refer the section on Installing new hard disk on Win98SE / ME / 2000 / WP for further information). The copy mode does not support memory cards or Harddisk that is NTFS formatted. Resolve error by re-partition& re-format the harddisk with FAT32 formatted or reformat the memory card to FAT32 formatted. Note: The memory card has its own proprietary formatted. You need to us the device such as camera or MP3 player to format your memory card.

§ If more than two memory cards present in the memory card slots, the CF is set as default to be copy to Hard disk. If you want the other memory card to be copy, eject the CF card from the CF memory card slot.

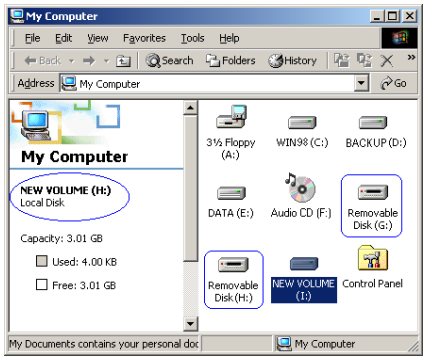
§ The device will automatically shutdown after idled for 30 seconds.

§ User can press & hold the ON button for few second to shutdown the device manually.

4.2 USB mode

§ Connect the device to the PC via USB connection.

§ Startup the PC as well as power up the device by pressing the ON button. Notice the OK LED lights up.
§ The windows OS will detect the device driver. Refer the "Window Installation" section if user has never installed the device in his PC before.
§ Notice 3 icons should appear on the "My Computer" screen.
§ Click on the **Local disk** icon or the **Removable disk** icon on the *My Computer* screen to access the information on the storage media.



§ Drag & drop any files from PC to device or vice versa. Notice the ACCESS or HDD LED blink to indicate that the file is downloading to the device or uploading from the device. Never remove the USB connection while file is uploading / downloading.
§ If the icon does not appear on the screen, user may verify the device has connected to the PC or verify the device drive has installed. (Refer "Windows Installation" section)
§ The device will automatically shutdown once user remove the USB cable from the device.
§ User can press & hold the ON button for few second to shutdown the device manually.

Windows 98SE /ME Installation

5.1 Operating System Supported

§ Windows™ 98Second Edition (SE) or Windows™ Millennium Edition (ME)
§ The device driver is in the CD-ROM installation disk sub-folder "Win98SE driver".

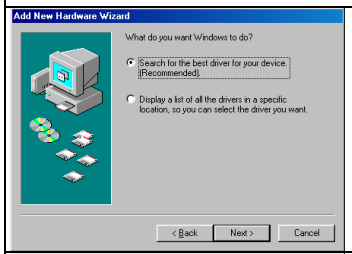
5.2 Install device driver on Windows 98™SE / ME

§ Connect the device to PC via USB connection.

§ Power up the PC as well as the device. Windows will detect "*NEW HARDWARE FOUND*" and prompt user to install device driver.

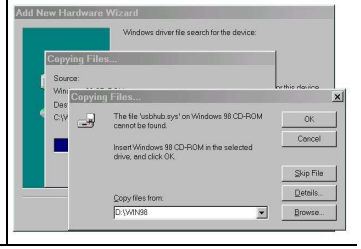
q Load the CD-ROM installation disk.
q Tick on "*Search for best driver for your new device*" and click *Next*.
q Set the directory path "F:*\Win98SE driver*" (where **F:** is your CD-ROM drive) and click *Next*.
q Follow through the online instruction.

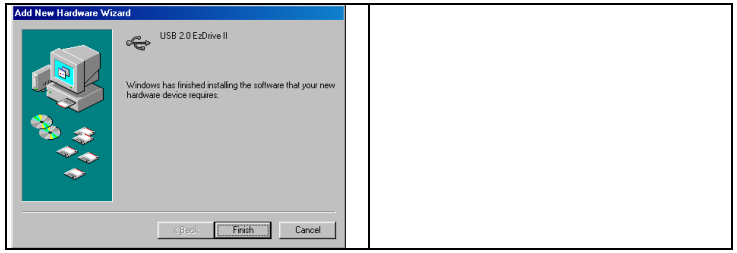
Add New Hardware Wizard
This wizard searches for new drivers for:
EZ-DRIVE II
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel


Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
F:\win98SE drive
Browse...
< Back
Next >
Cancel

Add New Hardware Wizard
Windows driver file search for the device:
USB 2.0 EzDrive II
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
F:\WIN98S~1\EZII98.INF
< Back
Next >
Cancel



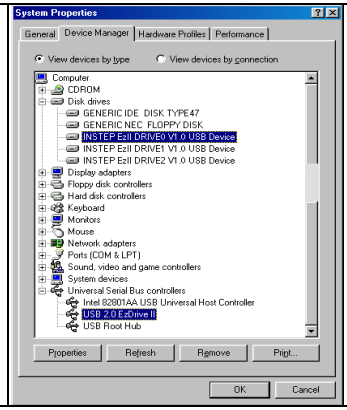

Add New Hardware Wizard
USB 2.0 EzDrive II
Windows has finished installing the software that your new hardware device requires.
< Back
Finish
Cancel

§ After the device driver has completed installation, notice 3 icons appear on the "My Computer" screen. Refer the section on "Installing new hard disk on Win98SE / ME & configure new harddisk in Win98SE / ME" if user do not see your harddisk icon.

§ Drag & drop any files from PC to device or vice versa if installation is successful.

5.3 Verify Win98SE/ ME has properly installed the device driver

- Click on the *My Computer* icon by right-click on the mouse.
- Select the *Properties* item.
- Choose the *Device Manager* selection
- Double click the *Disk drives* item.
- And check the three *INSTEP EzII DRIVE* have installed.
- Double click the *Universal serial bus Controller* item.
- And check the *USB 2.0 EZDRIVEii* has installed.



5.4 Troubleshoot

§ Click on the *My Computer* icon by right-click on the mouse.

§ Select the *Properties* item.

§ Choose the *Device Manager* selection

§ Double click the *others* item and check the *USB 2.0 EZDRIVEii* is mark with an exclamation mark.

§ Click on the item mark with an exclamation mark and then click *Remove*, *Refresh*.

§ The windows will prompt for device drive again.

5.5 Installing new hard disk on Win98SE / ME

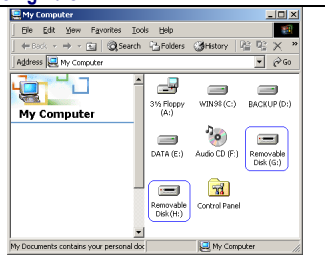
§ If a new harddisk is installed to this device, Windows 98SE or ME cannot recognize the new harddisk as local drive because new harddisk does not contain the Master Boot Record and Primary Partition Record information.

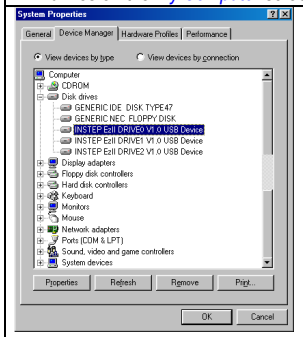
- o User can either use Windows 2000 or XP system to create harddisk Master Boot Record & Primary Partition Record.
- o User can either use Window98SE /ME to configure the new harddisk as a Removable drive. Windows 98SE /ME will enumerate the harddisk drive as a Removable drive instead of Local drive.

§ Follow the step to configure the New Harddisk before format the harddisk. (Old data will b destroy)

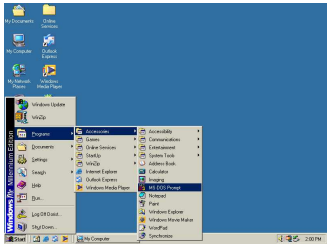
5.6 Configure new hard disk in Win98SE / ME using Fdisk

- Click on the *My Computer* icon by right-click on the mouse.
- Select the *Properties* item.
- Choose the *Device Manager* selection
- Double click the *Disk drives* item.
- And check the *INSTEP EzII DRIVE0* is present.
- You can only see two Removable drives on the *My Computer* screen.

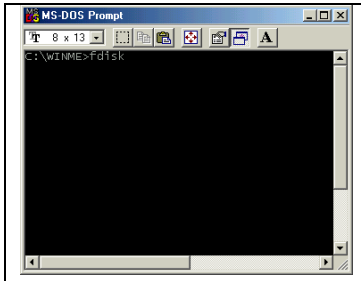




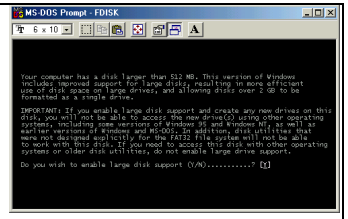
Check the *INSTEP EzII DRIVE0* is present.



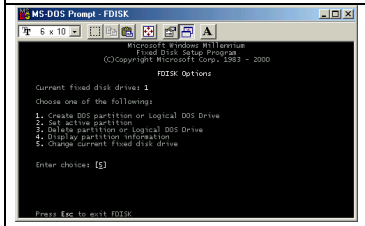
Click on the *Start, Program, Accessories* and select *MS-DOS prompt* item.



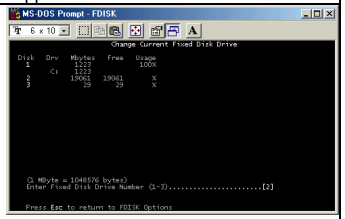
Type *FDISK* in the MS-DOS Prompt dialog box.



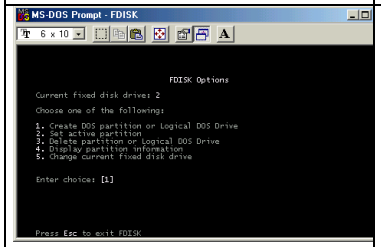
If you cannot get to this screen, you must reboot the computer and try again.
Type < **Y** > to wish to enable large disk support.


MS-DOS Prompt - FDISK
FDISK Options
Current fixed disk drive: 1
Choose one of the following:
1. Create DOS partition or Logical DOS Drive
2. Set active partition
3. Delete partition or Logical DOS Drive
4. Display partition information
5. Change current fixed disk drive
Enter choice: [5]
Press Esc to exit FDISK

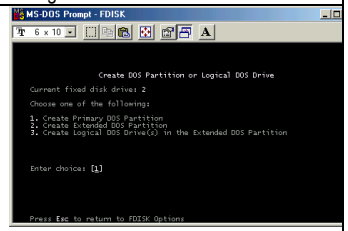
Enter the choice < **5** > to change current fixed disk drive


MS-DOS Prompt - FDISK
Change Current Fixed Disk Drive
Enter Fixed Disk Drive Number (1-3).....[2]
Press Esc to return to FDISK Options

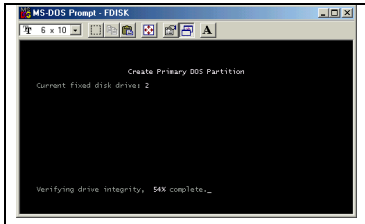
1~3 will depend on the number of harddisk drives present in the computer. Since 20GB harddisk is using in this the example, enter the choice < **2** > to change the current fixed disk drive.


MS-DOS Prompt - FDISK
FDISK Options
Current fixed disk drive: 2
Choose one of the following:
1. Create DOS partition or Logical DOS Drive
2. Set active partition
3. Delete partition or Logical DOS Drive
4. Display partition information
5. Change current fixed disk drive
Enter choice: [1]
Press Esc to exit FDISK

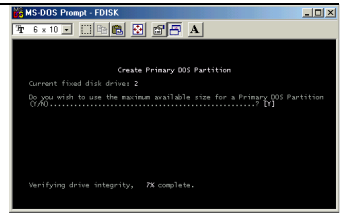
You have set the current fixed disk drive to 2. Now, enter the choice < **1** > to create DOS partition or logical Dos Drive.


MS-DOS Prompt - FDISK
Create DOS Partition or Logical DOS Drive
Current fixed disk drive: 2
Choose one of the following:
1. Create Primary DOS Partition
2. Create Extended DOS Partition
3. Create Logical DOS Drive(s) in the Extended DOS Partition
Enter choice: [1]
Press Esc to return to FDISK Options

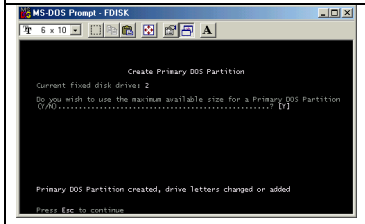
Next, enter the choice < **1** > to create primary DOS partition



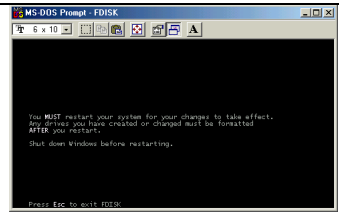
Enter < **Y** > to create primary DOS partition on current fixed disk drive 2



Enter < **Y** > to wish to use the maximum available size for a primary DOS partition


MS-DOS Prompt - FDISK
Create Primary DOS Partition
Current fixed disk drive: 2
Primary DOS Partition created, drive letters changed or added
Press Esc to continue

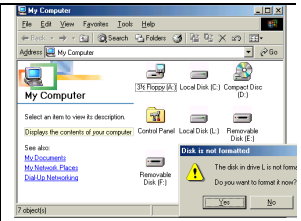
Press **ESC** after primary DOS is created.

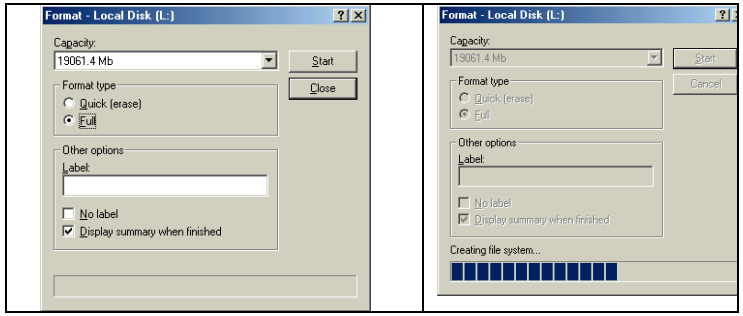

MS-DOS Prompt - FDISK
You MUST restart your system for your changes to take effect.
Any drives you have created or changed must be formatted AFTER you restart.
Shut down Windows before restarting.
Press Esc to exit FDISK

Press **ESC** to exit fdisk. You must **Reboot** the computer.

5.7 Format new hard disk in Win98SE / ME

- You must **reboot** the computer after perform fdisk. Ensure the new harddisk is enumerated and OS will assign a letter to the new drive.
- **Reboot** the computer again once the computer is successfully detect the new harddisk before format the harddisk.
- Click on the new *Local Disk (L:)* icon by right-button of mouse.
- Select the *Format* option.
- Choose the *Full* selection
- Notice the New harddisk is formatting.
- **Reboot** the computer again to let the OS initialize the new formatted harddisk successfully.





Windows – 200x/XP Installation

6.1 Operating System Supported

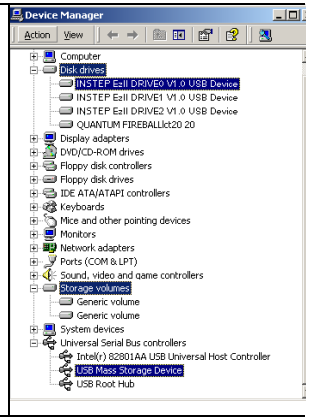
§ Windows™ 2K , Windows™ XP & Windows™ 2003
§ Supported by Microsoft default driver. (Requires service pack from Microsoft Windows Update website)

6.2 Verify windows has properly installed the device driver

§ Connect the device to PC via USB connection.

§ Power up the PC as well as the device. Windows will detect "*NEW HARDWARE FOUND*" and the Operating System (OS) will automatically install the Mass Storage device driver. Window OS initialize the card reader as Removable drive and the hard disk as Local drive

- Click on the *My Computer* icon by right-click on the mouse.
- Select the *Properties* item.
- Choose the *Device Manager* selection
- Double click on the *Disk Drives* item
- And check the three *INSTEP EzII DRIVE* have installed.
- Double click on the *Storage volumes* item.
- And check the *Generic volume* properly installed.
- Double click on the *Universal serial bus controller* item.
- And check the *USB Mass Storage Device* has installed.



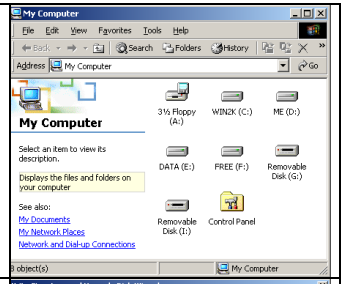
§ After the device driver has completed installation, notice 3 icons appear on the "My Computer" screen. Refer the section on "Create Master Boot Record on the new hard disk & Create Primary Partition Record on the new hard disk" if user do not see the harddisk icon.
§ Drag & drop any files from PC to device or vice versa if installation is successful.

6.3 Troubleshoot

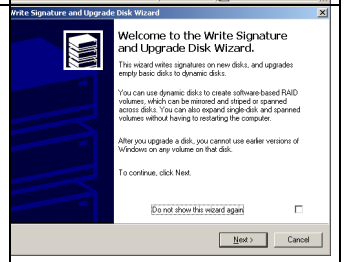
§ Click on the *My Computer* icon by right-click on the mouse.
§ Select the *Properties* item.
§ Choose the *Device Manager* selection
§ Double click the *Universal serial bus controller* and check the *USB Mass Storage Device* is mark with an exclamation mark.
§ Click on the item mark with an exclamation mark and then click *Remove*, *Refresh*.
§ The windows will prompt for device drive again.

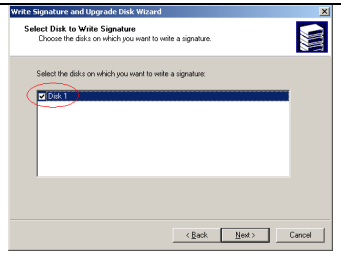
6.4 Create Master Boot Record on the new hard disk.

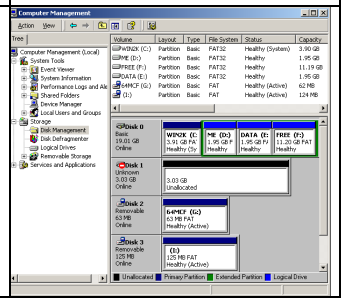
q Login the PC as *Administrator*.
q Click on the *My Computer* icon by right-click on the mouse and choose the *Manager* item.
q Or Click on the *Control Panel* icon and follow by *Administrative tools*



q Click the Disk Management icon.
q Click Next in the write signature prompt & Upgrade Disk wizard prompt.
q Tick on *Disk 1* option and follow through the instruction.
q The new Hard disk will create a Master Boot Record on the new hard disk.
q Proceed to create a new primary partition

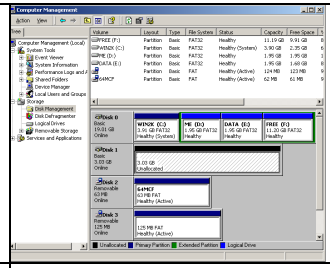

Write Signature and Upgrade Disk Wizard
Welcome to the Write Signature and Upgrade Disk Wizard.
This wizard writes signatures on new disks, and upgrades empty basic disks to dynamic disks.
You can use dynamic disks to create software-based RAID volumes, which can be mirrored and striped or spanned across disks. You can also expand single-disk and spanned volumes without having to restarting the computer.
After you upgrade a disk, you cannot use earlier versions of Windows on any volume on that disk.
To continue, click Next.
Do not show this wizard again
Next >
Cancel


Write Signature and Upgrade Disk Wizard
Select Disk to Write Signature
Choose the disks on which you want to write a signature.
Select the disks on which you want to write a signature:
Disk 1
< Back
Next >
Cancel

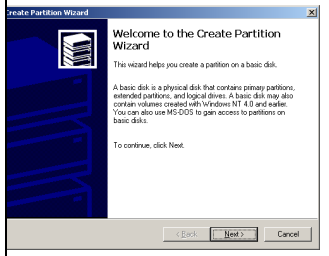


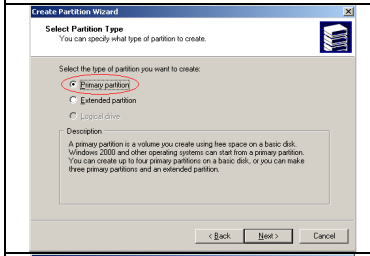
6.5 Create Primary Partition Record on the new hard disk.

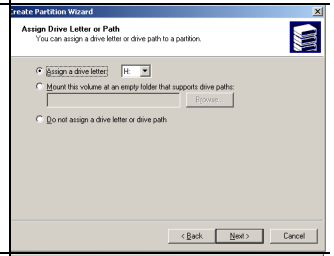
q After Hard disk has created Master Boot record (write signature), you need to create a primary partition on your new hard disk.
q Click on the *Disk1 Unallocated bar* by right-click of the mouse.



q Choose the *Create Partition* option, follow by *Next*.
q Windows XP and Windows 2000 cannot support more than 32Gbytes for FAT32 file system.
q Choose the *Primary partition* option and let system assign a drive letter.
q Choose the *FAT32 format*, *Default allocation unit size* and follow through the on-screen instruction.
q The new Hard disk is formatted and ready to be use


Create Partition Wizard
Welcome to the Create Partition Wizard
This wizard helps you create a partition on a basic disk.
A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. A basic disk may also contain volumes created with Windows NT 4.0 and earlier. You can also use MS-DOS to gain access to partitions on basic disks.
To continue, click Next.
< Back
Next >
Cancel


Create Partition Wizard
Select Partition Type
You can specify what type of partition to create.
Select the type of partition you want to create:
Primary partition
Extended partition
Logical drive
Description
A primary partition is a volume you create using free space on a basic disk. Windows 2000 and other operating systems can start from a primary partition. You can create up to four primary partitions on a basic disk, or you can make three primary partitions and an extended partition.
< Back
Next >
Cancel


Create Partition Wizard
Assign Drive Letter or Path
You can assign a drive letter or drive path to a partition.
Assign a drive letter:
Mount this volume at an empty folder that supports drive paths:
Browse...
Do not assign a drive letter or drive path
< Back
Next >
Cancel